



香港中文大學

The Chinese University of Hong Kong

CSCI5550 Advanced File and Storage Systems

Special Arrangements for Online Teaching

Ming-Chang YANG

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Course Information



- **CSCI5550 Advanced File and Storage Systems**

- **Course Time and Place**

- **Lecture (*3)**

- MON 09:30~10:15 ([ZOOM](#))
- TUE 13:30~15:15 ([ZOOM](#))

- **Tutorial (*1)**

- MON 10:30~11:15 ([ZOOM](#))

- **New: Online Q & A**

- MON 11:15~12:00 ([ZOOM](#))



The recordings will be available at course website.
(passwd: same as ZOOM)

- **Course Website**

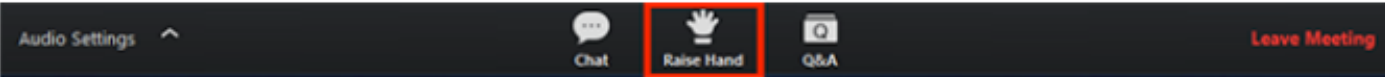
- <http://www.cse.cuhk.edu.hk/~mcyang/csci5550/2020S/csci5550.html>

Tips: Raise Hand and In-meeting Chat


- To have good quality of online sessions, I will **mute everyone** by default.
- Questions? [Raise Hand](#) (before [Unmute](#))

Windows | Mac

1. Click **Raise Hand** in the Webinar Controls.



2. The host will be notified that you've raised your hand.
3. Click **Lower Hand** to lower it if needed.



- Questions? [In-meeting Chat](#)



Course Instructor & Teaching Assistant

- **Course Instructor**

- Prof. Ming-Chang YANG (楊明昌)

- Office: SHB 906 (3943-8405)
- Office Hours: *requested by email*
- Email: mcyang@cse.cuhk.edu.hk



- **Teaching Assistant**

- Tsun-Yu YANG (楊尊宇)

- Office Hours: **MON 10:30~12:00** (**ZOOM**)
- Email: yangty@cse.cuhk.edu.hk

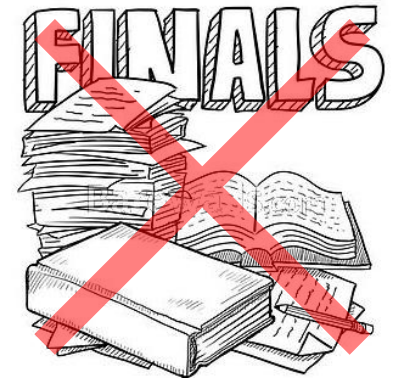


Course Assessment (w/ Final)



- ~~Programming Project (40%)~~
 - ~~Group of 1-2 students~~
- ~~Literature Survey & Presentation (30%)~~
 - ~~A literature survey and presentation to prove your knowledge in file and storage systems~~
 - ~~Group of 1-2 students~~
- ~~Final Exam (30%)~~

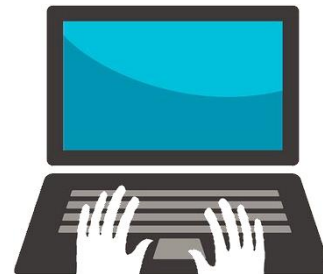
- ~~Bonus (5%)~~



New: Course Assessment (w/o Final)



- **Programming Project (40%)**
 - **Individual**
- **Literature Survey & Presentation (30%)**
 - A literature survey and presentation to prove your knowledge in file and storage systems
 - Group of 1-2 students
- **Research Proposal (30%)**
 - A research proposal to show your knowledge in identifying important research problems and proposing potential solutions in file and storage systems
 - Group of 1-2 students
- **Bonus (5%)**



New: CSCI5550 Course Schedule



	W	Date	Lecture	Suggested Readings	Tutorial
BASIC	1	Jan 6, 7	Lec01: I/O Devices	<i>OSTEP 36, 37</i>	-
	2	Jan 13, 14	Lec02: RAID and Data Integrity	<i>OSTEP 38, 45</i>	-
	3	Jan 20, 21	Lec03: File System Basics	<i>OSTEP 39~42</i>	-
	4	Jan 27, 28	Lunar New Year Vacation	No class	-
	5	Feb 17, 18	Lec03: File System Basics	<i>OSTEP 39~42</i>	-
ADVANCED	6	Feb 24, 25	Lec04: File System Designs	<i>OSTEP 43, FAT, Ext4</i>	HW1 Released
	7	Mar 2, 3	Lec05: Distributed File Systems	<i>OSTEP 49, GFS, Ceph</i>	(online Q & A)
	8	Mar 9, 10	Lec06: Solid-State Drives	<i>F2FS</i>	(online Q & A)
	9	Mar 16, 17	Lec07: New Hard Disk Drives	<i>SMR, IMR</i>	(online Q & A)
	10	Mar 23, 24	Lec08: Memory Storage	<i>NVM, PMFS, UBJ</i>	HW1 Due
	11	Mar 30, 31	Lec08: Memory Storage (Cont'd)	<i>LevelDB, WiscKey</i>	-
	12	Apr 6, 7	Lec09: Advanced Storage Systems	<i>GraphChi, FlashGraph</i>	HW2 Released
	13	Apr 13, 14	Easter / Survey Presentation		(online Q & A)
	14	Apr 20, 21	Literature Survey Presentation		(online Q & A)
	15	Apr 27, 28	Literature Survey Presentation		(online Q & A)
	✘	May 12	Group-based Research Proposal Due & Individual HW2 Due		